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|-------|------|---|---|------------------|---------|------------------|
| L1    | 623  | 708/490.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/01/06 15:47 |
| L2    | 166  | 708/603.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/01/06 15:47 |
| L3    | 502  | 708/620.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/01/06 15:47 |
| L4    | 150  | 708/523.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/01/06 15:47 |
| L5    | 6676 | canonical   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/01/06 15:48 |
| L6    | 13   | (1 or 2 or 3 or 4) and L5                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/01/06 15:48 |
| S1    | 369  | charles.in. and murphy.in.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/01/06 10:24 |
| S2    | 18   | S1 and (multiplication or multiplier\$1 or multiplying) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/01/06 13:22 |
| S3    | 2    | "6829060"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/01/06 13:26 |

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|-----|-------|--|---|----|----|------------------|
| S4  | 18    | "5262973"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 13:27 |
| S5  | 17    | "4031377"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 13:29 |
| S6  | 7     | "6223197"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 13:32 |
| S7  | 22    | "4293921"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 13:33 |
| S8  | 23076 | "708"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 13:33 |
| S9  | 6676  | canonical  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 13:57 |
| S10 | 1435  | (multiplier\$1 or multiplication or multiplying) and canonical | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 13:57 |
| S11 | 139   | S10 and S8   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 14:04 |
| S12 | 114   | shift\$3 and S11   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 14:31 |
| S13 | 169   | S9 and S8  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 14:31 |

|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| S14 | 55 | S13 not S12   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/01/06 14:31 |
| S15 | 1  | 1993-377708.NRAN.   | DERWENT   | OR | ON | 2005/01/06 14:36 |
| S16 | 12 | ("4031377").URPN.   | USPAT   | OR | ON | 2005/01/06 14:37 |
| S17 | 1  | ("6223197").URPN.   | USPAT   | OR | ON | 2005/01/06 14:42 |
| S18 | 2  | ("5600569"   "5903470").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2005/01/06 14:43 |
| S19 | 6  | ("3489888"   "3691359"  <br>"3696235"   "3800130"  <br>"3919535").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2005/01/06 14:44 |
| S20 | 0  | ("2001/0016864").URPN.  | USPAT   | OR | ON | 2005/01/06 14:45 |
| S21 | 3  | ("6223195").URPN.   | USPAT   | OR | ON | 2005/01/06 14:45 |
| S22 | 6  | ("4791598"   "5249146"  <br>"5357453"   "5477469"  <br>"5598361"   "5737256").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2005/01/06 14:46 |
| S23 | 0  | ("6029185").URPN.   | USPAT   | OR | ON | 2005/01/06 14:47 |
| S24 | 6  | ("4791598"   "5249146"  <br>"5357453"   "5477469"  <br>"5598361"   "5737256").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2005/01/06 14:47 |
| S25 | 6  | ("5732004").URPN.   | USPAT   | OR | ON | 2005/01/06 14:48 |
| S26 | 37 | ("4590457"   "4704600"  <br>"4849662"   "4851841"  <br>"4876542"   "4918454"  <br>"4920544"   "4939516"  <br>"5027306"   "5039989"  <br>"5055843"   "5061928"  <br>"5065157"   "5068660"  <br>"5079550"   "5084702"  <br>"5103229"   "5148166"  <br>"5148167"   "5153593"  <br>"5157395"   "5162799"  <br>"5182723"   "5184130"  <br>"5189419"   "5196850"  <br>"5198817"   "5208597"  <br>"5210537"   "5212659"  <br>"5245344"   "5274375"  <br>"5283578"   "5298900"  <br>"5311181"   "5323157"  <br>"5376936").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2005/01/06 14:48 |
| S27 | 8  | ("4967388").URPN.   | USPAT   | OR | ON | 2005/01/06 14:50 |
| S28 | 4  | ("3691359"   "3919535"  <br>"4122527"   "4597053").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2005/01/06 14:50 |

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**1 Multiple-objective optimization by a multiplier method of proper equality constraints--Part I: Theory**

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